1	1. (original) A method of analyzing a set of assets selected from a plurality of thereof,
2	historic returns data for the assets of the plurality being stored in storage accessible to a
3	processor and
4	the method comprising the steps performed in the processor of:
5	receiving inputs indicating assets selected for the set and for each asset, a desired
6	minimum return;
7	using the historic returns data to determine a probability that at least one of the
8	selected assets will not provide the desired minimum return indicated for the asset; and
9	outputting the probability.
1	2. (original) The method set forth in claim 1 wherein
2	the step of using the historic returns to determine a probability comprises the steps
3	of:
4	using the multivariate normal distribution for the returns of the assets to determine
5	the probability that each of the selected assets will provide the desired minimum return;
6	and .
7	determining the probability that at least one of the selected assets will not provide
8	the desired minimum return from the probability that each of the selected assets will
9	provide the desired minimum return
1	3. (original) The method set forth in claim 2 wherein:
2	in the step of using the multivariate normal distribution, the probability that each
3	of the selected assets will provide the desired return is determined using the real option
4	values of the assets.
1	4 (original) A method of optimizing a set of assets historic returns data for the assets

being stored in storage accessible to a processor and

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3 the method comprising the steps performed in the processor of: receiving inputs indicating a set of scenarios for the set of assets, each scenario 4 having values which are used in optimizing the set of assets and which vary stochastically 5 between two extremes and a probability of occurrence for the scenario; and 6 determining weights of the assets in the set such that the worst-case value of the 7 8 set of assets is optimized over the set of scenarios. 5. (original) The method of optimizing set forth in claim 4 wherein: 1 the worst-case value of the set of assets is the worst-case real option value thereof; 2 3 and the values which are used in optimizing are the mean return and the covariance. 4 6. (original) The method of optimizing set forth in claim 4 wherein: 1 a scenario in the set of scenarios may correspond to the historical returns data for 2 3 the assets in the set of assets. 7. (original) The method of optimizing set forth in claim 4 wherein: 1 a scenario in the set of scenarios may include certain assets in the set of assets 2 3 which are highly correlated. 8. (original) The method of optimizing set forth in claim 4 wherein: 1 a scenario in the set of scenarios may correspond to outliers in the historical 2 3 returns data. 9. (original) The method of optimizing set forth in claim 4 further comprising the step 1 2 of: receiving inputs indicating additional constraints to which the set of assets being 3 4 optimized is subject; and

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to the additional constraints.

in the step of determining weights of the assets, determining the weights subject

- 1 10. (original) A method of selecting a set of assets from a plurality thereof and
- 2 optimizing the weights of the assets in the set, historic returns data for assets being stored
- 3 in storage accessible to a processor and
- 4 the method comprising the steps performed in the processor of:
- 5 l) selecting a set of assets on the basis of a probability that at least one of the
- 6 assets in a selected set will not provide the desired minimum return indicated for the
- 7 asset; and

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- 2) optimizing the weights of the assets in the selected set.
- 11. (original) The method set forth in claim 10 wherein:
- 2 the probability that at least one of the assets will not provide the desired minimum
- 3 return is determined using the real option values for the assets.
- 1 12. (original) The method set forth in claim 10 wherein:
- 2 optimizing the weights of the assets is done using the real option values for the assets.
- 1 13. (original) The method set forth in claim 10 wherein:
- 2 optimizing the weights of the assets is done using robust optimization.
- 1 14. (original) The method set forth in claim 13 wherein:
- 2 the robust optimization optimizes over a set of user-specified scenarios, each scenario
- 3 having values which are used in optimizing the set of assets and which vary stochastically
- 4 between two extremes and a probability of occurrence for the scenario.
- 1 15. (original) The method set forth in claim 10 wherein:
- 2 optimizing the weights of the assets is done subject to a constraint that the probability
- that the set of assets yields a desired minimum return is greater than a user-specified value a.
 - 16. (original) The method set forth in claim 15 wherein:
- the optimization is done subject to a plurality of constraints (1..n), a constraint c_{hi} specifying
- 3 that the probability that the set of assets yields a desired minimum return that is greater than a user-
- 4 specified value a_{ir}

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- 1 17. (previously presented) The method set forth in claim 15 wherein:
- 2 optimizing the weights of the assets in the set is done using robust optimization.
- 1 18. (original) The method set forth in claim 17 wherein:
- 1 27. (original) The method set forth in claim 12 wherein:
- 2 the method further includes the step of:
- 3 receiving an input indicating one of a plurality of objective functions for computing the
- 4 real option values for the assets; and
- in the step of optimizing the weights of the assets, the optimization is done using the
- 6 indicated objective function of the plurality.
- 28. (previously presented) The method set forth in claim 12 wherein:
- 2 in the step of optimizing the weights of the assets, the objective function is adjusted by
- 3 assigning a premium or a discount to the real option value of one or more of the assets.
- 29. (previously presented) The method set forth in claim 28 wherein:
- 2 the objective function is adjusted to take non-normal returns for the asset into account.
- 1 30. (original) The method set forth in claim 28 wherein:
- the objective function is adjusted to take liquidity characteristics of the asset into account.
- 1 31. (original) The method set forth in claim 28 wherein:
- the objective function is adjusted to take tax sensitivity of an asset into account.
- 1 32. (original) The method set forth in claim 28 wherein:
- 2 the objective function is adjusted to take the length of time an asset has been available
- 3 into account.
- 1 33. (original) The method set forth in claim 12 wherein:
- 2 the method further includes the step of:

- 3 receiving an input indicating one of a plurality of modes of quantifying the risk of an
- 4 asset; and
- in the step of optimizing the weights of the assets, the optimization is done using the
- 6 indicated mode of the plurality.
- 1 34. (new) The method set forth in claim 1 wherein:
- 2 the received inputs include a period of time; and
- 3 the probability is the probability over the period of time.
- 1 35. (new) The method set forth in claim 10 wherein:
- 2 the probability is the probability over a period of time.